

prices. Much against my will, the contracts in this Division were made for two years, but as the Divisional Forest Officer expected thereby to obtain better prices and the Collector insisted so strongly that I was forced to yield. Unfortunately the better prices were not obtained and it is to be feared that further next year's prices will be prejudicially affected.

The increased expenditure includes about Rs. 5,000 for payment of share to contractors for the removal of wood from the Dángs on share system, Rs. 2,000 extra on account of forest survey, Rs. 3,000 on account of land compensation for purchase of land in Tháná, Rs. 2,000 on account of Working Plans and Rs. 2,000 on account of fire conservancy.

75. In the following statement the financial results of the Northern Circle for the past 10 years are given :—

Year.	Receipts.	EXPENDITURE.			Net Revenue.
		A.	B.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.
1886-87	4,43,157	89,724	1,44,507	2,34,231	2,08,926
1887-88	4,73,104	85,645	1,45,407	2,31,052	2,42,052
1888-89	5,78,425	88,924	1,47,364	2,36,288	3,42,137
1889-90	5,96,066	93,419	1,45,341	2,38,760	3,57,306
1890-91	6,37,408	1,04,809	1,39,880	2,44,689	3,92,719
1891-92	6,14,270	93,399	1,30,089	2,23,488	3,90,782
1892-93	6,82,884	1,38,639	1,96,486	3,35,125	3,47,759
1893-94	7,60,953	98,047	1,66,899	2,64,946	4,96,007
1894-95	7,38,680	96,961	1,78,971	2,75,932	4,62,748
1895-96	7,83,283	1,08,221	1,89,216	2,97,437	4,85,746
1896-97	5,83,437	1,26,022	1,93,859	3,19,881	2,63,556

CHAPTER V.

FOREST ADMINISTRATION.

ESTABLISHMENT.

76. The Tháná District, which contained only two Divisions up to 31st December 1896, was split up and formed into 3 Divisions from the 1st of January 1897. They are North Tháná, Central Tháná, and South Tháná. This important change has been made with a view to better supervision over the working of the coupes. The Divisional Forest Officers now find more time to devote to some most important duties which have necessarily been hitherto either not at all or inefficiently performed, especially as regards the collection and record of data of yield and reservation, areas burnt, &c. These data, so important for control of the Working Plans and so necessary for the drawing up of permanent ones when the present preliminary Working Plans shall terminate, are even now after ten years of working practically unrecorded.

With this change in Divisions a Sub-Division Officer was moved to the Panch Maháls, where his services were urgently required for marking coupes in the Godhrá Range. Thus in this Circle now every Divisional Forest Officer has been provided with the assistance of a Sub-Division Officer.

77. In addition to this increase in the administrative strength, however, a large increase in the executive strength is called for. Such increase for the Surat District proper has been already sanctioned. For the leased forests of the Dángs, however, nothing can be done until the settlement has been placed on a satisfactory footing. This has been delayed by the demands on the officers of all departments in connection with plague and famine, but it is hoped will soon be taken in hand. In forwarding the divisional report the Political Agent writes :—

"The two most pressing forest matters in the Dáangs at present are, I think, the strengthening of the staff and the enquiring into and deciding on the alterations which the Rájás wish to have made here and there in the boundaries of the reserved forests. And these two things should, I think, be pressed on Government."

and I cordially agree. The Dáng forests are deteriorating and nothing can save them, but a final settlement, opening of communications, a resident magisterial officer, and a very largely increased forest protective establishment.

78. For the Panch Maháls proposals* for an increased lower protective establishment have been provisionally accepted by Government and similar proposals for the Tháná Divisions are under consideration, but Government have decided to reserve action pending the receipt of proposals for the reorganization of the Range Forest Officers and office establishments. These proposals will be before Government as soon as this report, and an early settlement is hoped for.

79. It should be recorded under this chapter that the Forest Department in Tháná were called on to supply grass to the famine districts of the Dekhan. A system of retail purchase of grass at all the railway stations was organized, and this grass was subsequently pressed, loaded into railway wagons and exported. An Extra Assistant Conservator was employed whole time on supervising this work. A large departmental collection of grass amounting to 50 lakhs of lbs. was also made in the Tánzá reserve, carted to the Railway station and thence exported. On this work another Extra Assistant was employed whole time from 1st January to the end of the season, and for the last two months Mr. Ryan, Divisional Forest Officer, South Tháná, was also occupied in pushing through the pressing and despatch before the break of the rains. The whole was carried out under the administration of the Honourable Mr. Shuttleworth on special duty. Detailed results will have been reported to Government elsewhere and need not be given here.

80. The administration was conducted by me throughout the year.

The divisional charges were held as under:—

No.	Division.	Name of Officer.	Rank.	PERIOD.	
				From	To
	East Tháná ... South Tháná ...	R. C. Wroughton...	Conservator of Forests, N. C. ...	1st July 1896 ...	16th July 1896.
		T. R. D. Bell ...	Deputy Conservator, 2nd Grade ...	17th do. ...	2nd August 1896.
		A. G. Edie ...	Assistant Conservator, 2nd Grade ...	3rd August 1896 ...	21st Dec. 1896.
		J. Dodgson ...	Do. do. ...	22nd Dec. 1896.	8th January 1897.
	West Tháná ... North Tháná ...	G. M. Ryan ...	Deputy Conservator, 4th Grade ...	9th January 1897.	30th June 1897.
		C. M. Hodgson ...	Assistant Conservator, 1st Grade ...	1st July 1896 ...	2nd August 1896.
		T. R. D. Bell ...	Deputy Conservator, 4th Grade ...	3rd August 1896.	12th Nov. 1896.
		J. Dodgson ...	Assistant Conservator, 2nd Grade ...	13th Nov. 1896 ...	21st Dec. 1896.
	Central Tháná ... Surat ...	A. G. Edie... ...	Do. do. ...	22nd Dec. 1896...	30th June 1897.
		J. Dodgson ...	Do. do. ...	1st January 1897.	Do.
		A. Stewart... ...	Deputy Conservator, 3rd Grade ...	1st July 1896 ...	22nd June 1897.
		C. G. Dália ...	Extra Assistant, 3rd Grade ...	22nd June 1897 ...	30th June 1897.
	Panch Maháls ... Working Plans ...	W. A. Wallinger ...	Do. 1st Grade... ...	1st July 1896 ...	Do.
		J. Dodgson ...	Assistant Conservator, 2nd Grade ...	Do. ...	12th Nov. 1896.
		T. R. D. Bell ...	Deputy Conservator, 4th Grade ...	13th Nov. 1896 ...	21st Dec. 1896.
		R. C. Wroughton ...	Conservator of Forests, N. C. ...	22nd Dec. 1896...	25th Jan. 1897.
		G. P. Millett ...	Deputy Conservator, 3rd Grade ...	26th Jan. 1897 ...	30th June 1897.

Sub-Divisional charges were held as under:—

No.	Division.	Name of Officer.	Rank.	Sub-Division.	PERIOD.	
					From	To
1	East Tháná ...	A. N. Máster ...	Extra Assistant Conservator, 3rd Grade.	Sháhápúr ...	1st July 1896 ...	21st Dec. 1896.
	South Tháná ...	K. B. Phadke ...	Do. do. ...	Kalyán ...	Do. ...	Do.
2	West Tháná ...	K. B. Phadke ...	Do. do. ...	South Tháná.	22nd Dec. 1896.	30th June 1897.
	West Tháná ...	V. D. P. Ribeiro ...	Do. do. ...	Bassein ...	1st July 1896 ...	9th Jan. 1897.
	North Tháná ...	S. B. Ránade ...	Do. 4th Grade.	Dáhnú ...	Do. ...	3rd Jan. 1897.
	North Tháná ...	D. M. Bijur ...	Do. 3rd do.	North Tháná	4th Jan. 1897 ...	30th June 1897.
	Central Tháná.	A. N. Master ...	Do. do. ...	Central Tháná.	22nd Dec. 1896.	Do.
	Surat ...	C. G. Dália ...	Do. 4th Grade.	Surat ...	1st July 1896 ...	Do.
	Panch Maháls.	S. B. Ránade ...	Do. do. ...	Panch Maháls.	13th Jan. 1897.	Do.

GENERAL REMARKS.

81. All the Extra Assistant Conservators are reported to have worked well.

Of the Range Forest Officers the following are reported for special mention:—

Rangers.

Shaikh Ahmed Nur Mahomed.

Hari Anant Bhadbhade.

Foresters.

Esa Mahomed Viráji.

Shaikh Usman Shaikh Idrus.

The office establishments of the Divisional Forest Officers are reported to have worked well as has that of the Conservator of Forests under Mr. S. B. Ránglekar.

The subordinate protective establishment is reported to have worked fairly well. Eighteen forest guards were dismissed during the year as against 23 of last year for misconduct and neglect of duty. Four of these were dismissed in South Tháná in connection with the burning of grass collected on the Tánzá catchment for despatch to the famine districts. Nine men were degraded, all these in the South Tháná Division. Eleven men died of various diseases. Náráyán Rájárám, Ranger, Rs. 50, in charge of the Sálsette Range, and a round guard died of the plague in Tháná and Bhiwandi respectively.

CONSERVATOR'S TOUR OF INSPECTION.

82. Camp was formed at Chinchoti in the Bassein Range on the 5th November, whence (as well as from Parol, the next camp) a large number of the Bassein blocks were inspected. With one or two exceptions the felling of the coupes of the year had either not been commenced or having been commenced had been almost at once stopped by the refusal of the villagers to work or to allow outsiders to work. Mr. DuBoulay, Assistant Collector, was in camp with the Collector, and possibly as a result of his presence among them shortly after the villagers changed their minds and felling work commenced everywhere. The forests in this neighbourhood showed everywhere signs of hacking and looting to provide dead wood under the concession to the wild tribes. The camp was moved to Bhiwandi on the 23rd, but the Honourable Mr. Shuttleworth who had been placed on special Famine Duty having asked that measures should be undertaken to purchase and press grass for despatch to the Dekhan at all the railway stations beyond Kalyán, the Conservator moved to Wássind on the Railway. Here he was joined by Mr. Edie, Divisional Forest Officer, East Tháná, and arrangements were made to purchase grass through the Forest Dépôt Officers. With the Christmas holidays Mr. Edie left to take charge of the new North Tháná Division, but the Conservator remained until the end of January, by which time the purchase of the available grass was well advanced and the immediately available baling presses had been received, set up and were working smoothly. The operations were placed under the direct supervision of Mr. Phadke, Extra Assistant Conservator, South Tháná, under the immediate orders of the Honourable Mr. Shuttleworth. In the meanwhile it had been decided to collect grass departmentally in the Tánzá Forests. Mr. Máster, Extra Assistant Conservator, Central Tháná, had been placed in charge of this work early in the new year. After a short halt at Tánzá the Conservator closed office there on 14th February and moved to the Dáhánu Range, where office reopened on the 18th. From this date till the 17th March a number of blocks in the eastern portion of the Dáhánu and Umbargaon Ranges were inspected. In more than a dozen blocks visited no fire had occurred for the past ten years, thus presenting a marked contrast to the reserve on Máhuli Hill, which, while the Conservator was camped at Wássind, was fired five separate times. This shows that fires are preventible by the people if they think it worth while. Increased establishment will enable us to deal more efficiently with fires which

occur, but "public opinion" alone can prevent their occurrence, and this public opinion can only be formed by enforcing communal responsibility. The effect of immunity from fire on these Dáhanu blocks is most striking. Some of the young coupes are so thick that it is difficult to force a way through them except along a few foot-paths. On the other hand, it was noted that far too few standards had been reserved in these forests, which must result in a short supply of the larger logs in the next exploitation.

Immediately after the Holi holidays the camp was moved by rail to Kim and on the 26th office was opened at Mándvi. Up to the Easter holidays the Conservator toured through the Mándvi Taluka, the office remaining at Mándvi owing to difficulty in obtaining carts. And during the Easter holiday a flying camp was made to visit the sleeper felling at Mheskátri in the Dángs. On the 19th April the camp was moved back to Kim and thence by rail to Pálghar and by road to Vádá, where office reopened on the 26th. A number of blocks of Vádá and Khardi Ranges were inspected, and in company with Mr. Dodgson, the Divisional Forest Officer, some experiments in marking reserves in the coupes with a stamp were carried out. About the 20th May the camp moved *via* the Shirghát Road to the Násik District and was enrailed at Igatpuri for headquarters, where office reopened for the monsoon on the 26th May.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

Bándrá, 15th October 1897.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Area of Reserved Forests, 1896-97.

Division.	Civil District or Territory.	Name of Forest.	Area on 1st July 1896.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1897.		No. and Date of Notification of addition or transfer.	REMARKS.
			Acres.	Equivalent in Square Miles.			Acres.	Equivalent in Square Miles.		
1	2	3	4	5	6	7	8	9	10	11
				Sq. m. a.				Sq. m. a.		
North Tháná ...	Tháná ...	...	175,021	273 301	3,396	*213	178,201	278 284	Nos. 4540 5865B 9-6-96, 27-7-96, 8615A 6092B 2-11-96, 4-8-96, 8615 *4593 2-11-96, 15-7-96.	
Central Tháná ...	Do. ...	...	168,457	263 137	1,741	...	170,198	265 598	Nos. 5862A 4378 27-7-96, 1-6-96, 5860 4131A 27-7-96, 25-5-96, 4540 9-6-96.	
South Tháná ...	Do. ...	...	134,865	210 455	78	*13	134,930	210 530	Nos. 4342 6085A 2-6-96, 4-8-96, 5861 27-7-96, *457 10189 21-1-97, 12-12-96.	
Surat ...	Surat ...	...	44,623	69 463	33	...	44,656	69 496	Vide Commissioner, N. D's 1439 No. 9-4-97.	
Panch Maháls ...	Panch Maháls ...	...	†213,530	333 410	25	*797	212,758	332 278	Nos. 1213 7256 439 12-2-97, 14-9-96, 19-1-97, 1255 1255A 15-2-97, 15-2-97. *Nos. 4276 4276A 7-6-97, 7-6-97, 3750 18-5-97.	† Rectification of area by Forest Settlement Officer, Panch Maháls.
Ahmedábád (Mo-dása.)	Ahmedábád ..	...	21,649	33 529	...	...	21,649	33 529		
		Total ...	758,145	1,184 385	5,273	1,023	762,395	1,191 155		

Báandra, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 46A.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Area of Protected Forests, 1896-97.

Division.	Civil District or Territory.	Name of Forest.	Area on 1st July 1896.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1897.		No. and date of Notification of addition or transfer.	REMARKS.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11
				Sq. m. a.		A. g.		Sq. m. a.		
North Tháná ...	Tháná ...	...	70,149	109 389	...	...	70,149	109 389		
Central Tháná ...	Do. ...	...	73,405	114 449	...	*19 0	73,386	114 426	.....	* Owing to corrections in Survey Registers.
South Tháná ...	Do. ...	...	134,254	209 490	...	0 29	134,254	209 494	Nos. $\frac{6022}{1-8-96}, \frac{6634}{24-8-96}.$	
		Total ...	2,77,808	434 48	...	19 29	2,77,789	434 29		

Bádra, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 47.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Statement showing the Progress made in, and the Expenditure incurred on, Forest Settlement during 1896-97.

Name of Forest Division.	Name of Civil District or Territory.	Area already settled at commencement of the year.	AREAS FINALLY SETTLED DURING THE YEAR.						AREAS UNDERGOING SETTLEMENT.						REMARKS.
			Number and date of Government order according final sanction to the Settlement.	Name of Forest settled.	Area in Square Miles.	Expenditure incurred during the year on areas finally settled.		Entire Cost per Square Mile of Areas finally settled during the year.	At commencement of the year.		Taken in hand during the year.		Expenditure incurred during the year on Areas undergoing Settlement.		
						In Forest accounts.	In other accounts.		Name of Tract.	Area in Square Miles.	Name of Tract.	Area in Square Miles.	In Forest accounts.	In other accounts.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
North Tháná ...	Tháná ...	Sq. m. 383	4540	Talasri No. I, II.	$\frac{1}{2}$	Rs. a. p.	Rs. a. p.	Rs. ...	All other areas forming North-ern Division.	$4\frac{1}{2}$	All other areas forming North-ern Division.	...	Rs. ...	Rs. ...	
			9-6-96	Máhim ...	$4\frac{1}{2}$	.....	.....	...				
			5865B												
			27-7-96												
			8615H												
			2-11-96												
			6092B												
Central Tháná ...	Do. ...	378	4-8-96	Dahánu ...	$\frac{1}{2}$	13,216 14 11	4,249 6 4	...	All other areas forming Central Tháná Division.	1	All other areas forming Central Tháná Division.	1	
			8615												
			2-11-96												
			5826A	Bassein ...	...	.....	.....	...			
			27-7-96	Vádá ...	$2\frac{1}{2}$	.....	.....	...				
			4328												
			1-6-97												
South Tháná ...	Do. ...	420 $\frac{1}{2}$	5860	Mokháda ...	$\frac{1}{2}$	Sháhápúr ... Khardi (Tánsa)... All other areas forming South Tháná Division.	600	Sháhápúr ... Khardi (Tánsa)... All other areas forming South Tháná Division.	600	
			27-7-96												
			4131A												
			25-5-96												
			4540												
			9-6-96												
			4342												
Panch Maháls ...	Panch Maháls	2-6-96	Kalyán ...	$\frac{1}{2}$	
			5861	Bhiwudi ...	...	.....	.....	...			
			27-7-96												
			.....	Godhra ...	139	71 7 6	.....	...					
			.....	Kálol ...	34	for the carriage								
			.....	Hálol ...	44	of office re-								
			.....	Dohad ...	72	records, &c.								
Total ...	Total ...	1,181 $\frac{1}{2}$	337	13,288 6 5	4,249 6 4	609 $\frac{3}{4}$...	605 $\frac{1}{2}$	

FORM No. 48.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Record of Demarcation and Maintenance of Boundaries, 1896-97.

Division.	Length of Boundaries artificially demarcated during the year.	Length of previously existing Boundaries repaired.	Length of previously existing Boundaries not repaired.	Total length of artificially marked Boundaries at the close of the year.	Length of Boundaries not demarcated at the close of the year.	Length of natural Boundaries not requiring artificial marks.	Total length of Boundaries at the close of the year.	EXPENDITURE ON DEMARCATION DURING THE YEAR.		REMARKS.
								On new Work.	On Repairs.	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Miles.	Rs.	Rs.	
North Tháná	102½	...	67½	155½	643	19	817½	1,927 1 0	.....
Central Tháná	77	323½	62¾	463¼	187	114½	764¾	816 15 6	59 2 0	
South Tháná	38¼	403¼	129¼	560¾	454¼	85¼	1,100¼	780 1 0	132 10 6	
Surat	26¾	15	620¼	662	269½	8½	940	916 8 0	.....
Panch Maháls	15½	2½	470½	488½	470½	101	1,060	423 9 0	65 5 0	
Total	260	744¼	1,350¼	2,330	2,024¼	328¼	4,682½	4,814 2 6	257 1 6	

N.B.—Boundaries include, besides the outer perimeter, the limits of enclosures of private or other lands within the forests, but not the limits of sub-divisions, such as blocks, compartments, coupes.

Bán rá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 49.

FOREST SURVEY DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Statement of Forest Areas surveyed during the Forest year 1896-97 in the Northern Circle.

Division.	Areas surveyed and under survey during the year.																									Areas remaining to be taken under Survey.	Total Forest area at end of the year, as per Form No. 46.	COST.			REMARKS.
	Special Surveys—Maps on 4" scale or over, by Survey of India Department or Forest Survey Branch.							Ordinary, included in District Surveys.							Chain and Compass or other Surveys by local Officers.							Previ-ous.	Of the year.	Entire cost of all Surveys to end of the year.							
	WITH INTERIOR DETAILS.					BOUNDARY SURVEYS.		WITH INTERIOR DETAILS.				BOUNDARY SURVEYS.			WITH INTERIOR DETAILS.				BOUNDARY SURVEYS.												
	WITH DETAILS OF GROWING STOCK.		WITHOUT DETAILS OF GROWING STOCK.			Total cost.	Pre-vious.	Of the year.	Total cost.	WITH DETAILS OF GROWING STOCK.		Total cost.	Pre-vious.	Of the year.	Total cost.	4-INCH OR OVER.		UNDER 4-INCH.		Total cost.	Pre-vious.				Of the year.			Total cost.			
	Pre-vious.	Of the year.	Pre-vious.	Of the year.	Pre-vious.					Of the year.	Pre-vious.					Of the year.	Pre-vious.	Of the year.	Pre-vious.										Of the year.		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22				23			24	25	26		27	28	29	30	31
1																															
Surat.							Sq.ms.	Rs. a. p.																							
Triangulation 8"	141																						Mándvi Táluka.		
Traversing 8"	10																						44 Linear Miles.		
North Thána.																															
Detail Survey 8"	51-71	9,635 6 8																					Máhim Táluka.		
Grand Total		10,615 4 7																							

(Signed) W. J. BYTHELL, Major, R.E.,

(Signed) W. J. BYTHELL, Major, R.E.,
Superintendent, Bombay Forest Survey.

Poona, 12th July 1897.

FORM No. 50.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Progress made in Working-Plans, 1896-97.

Division.	AREAS FOR WHICH WORKING-PLANS HAVE BEEN COMPLETED.		AREAS FOR WHICH WORKING-PLANS ARE BEING COMPILED.		Areas for which Working-Plans have still to be taken in hand.	Total Forest area as in Form No. 46.	Entire cost, per square mile, of Working-Plans completed.	REMARKS.
	At commence- ment of the year.	During the year.	At commence- ment of the year.	Taken in hand during the year.				
1	2	3	4	5	6	7	8	9
	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Sq. ms.	Rs.	
North Tháná ...	120	.....	.....	.....	265	385	<div>As the charges are debited in lump separate figures for each division are not available.</div>	<div>These figures represent area of forests as scaled, and, therefore, they will not compare with figures in Form No. 46.</div>
Central Tháná ...	200	.....	.....	.....	172	372		
South Tháná ...	72	.....	.....	.....	342	414		
Surat ...	.....	.....	.....	.....	.....	.....
Panch Maháls ...	174	.....	.....	45	.....	219		
Total ...	566	.....	.....	45	779	1,390	23	Excluding cost of Establishment.

Bándrá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 51.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Communications and Buildings during 1896-97.

Division.	NEW WORK UNDERTAKEN DURING THE YEAR.						REPAIRS EXECUTED DURING THE YEAR.					
	Buildings.		Roads and Paths.			Total Expenditure on new Work.	Buildings.		Roads and Paths.			Total Expenditure on Repairs.
	Description of Building.	Expenditure incurred.	Road or Path and object of the same.	Length of Road or Path.	Expenditure incurred.		Nature of Repairs.	Expenditure incurred.	Nature of Repairs.	Length repaired.	Expenditure incurred.	
1	2	3	4	5	6	7	8	9	10	11	12	13
		Rs. a. p.		Miles.	Rs. a. p.	Rs. a. p.		Rs. a. p.		Miles.	Rs. a. p.	Rs. a. pi
North Tháná.	Rest-house at Kogdá.	116 3 0	Road from A'krá to Sáwe.	8	957 5 0	.....	Repairs to 49 Forest Guards' Houses and Depôt Houses. Repair to 1 Cattle-pound.	172 0 6	.....	...	...	.....
	5 Houses for Subordinate Establishment. Sinking a well at Kándalpadá.	167 3 0 145 0 0	..... .....	... ...	... ...	.....		10 0 0	.....	...	...	.....
	Total ...	428 6 0	.....	8	957 5 0	1,385 11 0		182 0 6	.....	...	...	182 0 6
Central Tháná.	2 Cattle-pounds ...	47 0 0	.....	...	...	.....	One Rest-house at Párol.	16 12 0	.....	...	...	.....
	2 Houses for Subordinate Establishment.	90 8 0	.....	...	...	.....	4 Houses for Subordinate Establishment. Cattle-pounds ...	106 1 0 23 2 0	..........	......	......	..........
	Total ...	77 8 0	.....	...	...	77 8 0		145 15 0	.....	...	...	145 15 0
South Tháná.	6 Houses for Subordinate Establishment.	60 0 0	.....	...	...	.....	A Rest-house at Táná.	23 7 0	.....	...	...	.....
	1 Cattle-pound ...	25 0 0	.....	...	...	.....	2 Cattle-pounds ...	4 8 0	.....	...	...	.....
	Total ...	85 0 0	.....	...	...	85 0 0	76 Houses for Subordinate Establishment.	282 12 0	.....	...	...	.....
Surat.	Rest-house at Ahwá...	24 14 0	Road from Kalibel to Sajakpáda.	7	120 1 2	.....	Repairs to Rest-houses in Dángs.	536 6 7	Repairs to five existing cart-roads and bridges in Dángs.	126	688 10 6	.....
	3 Houses for Subordinate Establishment.	343 12 2	Road from Garvi to Donglamba. Road from Ahwá to Gulkund. Foot-path from Gulkund to Chipghat. Road through Rambách to Sasurdá.	6 13 8 8	182 10 0 150 0 0 72 3 0 523 4 0	..... ..... ..... .....	Houses for Subordinate Establishment.	314 10 1	.....	...	...	.....
	Total ...	368 10 2	.....	42	1,048 2 2	1,416 12 5		851 0 8	.....	...	688 10 6	1,539 11 2
Panch Maháls.	Store-room in Godhrá Nursery.	312 5 8	.....	...	...	.....	Repairs to Godhrá Rest-house and out-houses.	285 7 0	.....	...	...	.....
	Forest Posts at Shehera, Sena and Satal.	573 12 6	.....	...	...	.....	6 Houses for Subordinate Establishment.	34 0 0	.....	...	...	.....
	Total ...	886 2 2	.....	...	...	886 2 2		319 7 0	.....	...	...	319 7 0
	Grand Total ...	1,797 13 2	.....	...	...	3,851 1 7		1,809 2 2	.....	...	...	2,497 12 8

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

Bándrá, 15th October 1897.

FORM No. 52.

FORM No. 52.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Prosecutions for Breaches of Forest Rules during 1896-97.

Forest Division and Civil District.		Cases pending from 1895-96.	NEW CASES OF THE YEAR.					Total cases.	DISPOSED OF DURING THE YEAR.						Cases pending at close of year.	
			Injury to Forest by fire.	Unauthorized felling or appropriation of wood and minor Forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.			
									Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		
1		2	3	4 •	5	6	7	8	9	10	11	12	13	14	15	
North Tháná	...	(A) ...	14	1	16	2	9	28	42	13	45	9	18	22	63	20
	...	(B) ...	...	...	106	...	12	118	118	118	290	...	...	118	290	...
	...	(C) ...	...	60	57	1	3	121	121	...	...	...	...	...	...	...
	Total	...	14	61	179	3	24	267	281	131	335	9	18	140	353	20
Central Tháná	...	(A) ...	7	7	53	1	...	61	68	29	78	5	11	34	89	34
	...	(B) ...	6	...	68	...	4	72	78	70	143	...	...	70	143	8
	...	(C) ...	4	160	96	...	1	257	261	...	...	...	...	...	...	...
	Total	...	17	167	217	1	5	390	407	99	221	5	11	104	232	42
South Tháná	...	(A) ...	38	6	60	8	1	75	113	56	159	44	135	100	294	13
	...	(B) ...	6	8	137	1	5	151	157	155	399	...	...	155	399	2
	...	(C) ...	...	149	263	2	...	414	414	...	...	...	...	...	...	...
	Total	...	44	163	460	11	6	640	684	211	558	44	135	255	693	15

Surat	...	...	...	(A) ...	2	3	4	...	...	7	9	6	8	1	1	7	9	2
				(B)	1	10	...	8	19	19	19	21
				(C) ...	...	20	2	...	...	22	22	...	...	...	...	...	...	...
Total				...	2	24	16	...	8	48	50	25	29	1	1	7	9	2
Panch Maháls	...	...	...	(A) ...	8	6	34	21	21	82	90	55	119	17	37	72	156	18
				(B) ...	...	...	98	3	19	120	120	120	197	...	...	120	197	...
				(C) ..	...	184	28	80	...	292	292	...	...	...	...	...	...	...
Total				...	8	190	160	104	40	494	502	175	316	17	37	192	353	18
Abstract of the above Totals.																		
				(A) ...	69	23	167	32	31	253	322	159	409	76	202	235	611	87
				(B) ...	12	9	419	4	48	480	492	482	1,050	...	...	463	1,029	10
				(C) ...	4	573	446	83	4	1,106	1,110	...	...	...	...	...	...	...
Total				...	85	605	1,032	119	83	1,839	1,924	681	1,459	76	202	698	1,640	97

A means cases taken into court.

B means cases disposed of under Section 67 of the Indian Forest Act, 1878.

C means undetected cases.

Bandra, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 53.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Area of Forest Tracts protected from Fire during 1896-97.

Division.	Forest Ranges.	Area protected during 1896-97.	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	REMARKS.
1	2	3	4	5	6	7	8
		Acres.	Acres.	Acres.	Acres.	Rs.	
North Tháná ...	Máhim ...	72,435	74,936	598	74,338	511	
	Dáhánu ...	133,320	134,504	3,244	131,259	984	
	Umbargaon ...	34,915	35,729	1,903	33,827	303	
	Total ...	240,670	245,169	5,745	239,424	1,798	
Central Tháná ...	Bassein ...	47,390	54,618	2,746	51,872	1,028	
	Vádá ...	70,926	78,736	5,954	72,782	416	
	Khardi ...	70,686	74,891	3,235	71,656	251	
	Mokháda ...	34,170	35,338	763	34,575	137	
	Total ...	223,172	243,583	12,698	230,855	1,832	
South Tháná ...	Sálssette ...	14,796	15,568	314	15,254	384	
	Kalyán ...	32,387	35,075	2,655	32,420	394	
	Bhiwundi ...	43,139	47,934	3,321	44,613	351	
	Murbád ...	86,624	88,912	1,773	87,139	609	
	Sháhápúr ...	61,743	81,694	12,880	68,814	807	
	Total ...	238,689	269,183	20,943	248,240	2,545	
Panch Maháls...	Godhra ...	71,684	89,344	8,228	81,116	2,223	
	Kálol ...	18,048	21,595	1,472	20,123	54	
	Hálol ...	18,265	28,509	9,198	19,311	791	
	Dohad ...	41,091	46,439	10,551	35,888	16	
	Jhálol ...	24,188	26,872	1,192	25,680	52	
	Total ...	173,276	212,759	30,641	182,118	3,136	
Surat ...	Mándvi ...	29,680	41,846	4,100	37,746	1,233	
	Bulsár ...	1,499	1,507	28	1,479	41	
	Chikhli ...	1,234	1,284	25	1,259	42	
	Total ...	32,413	44,637	4,153	40,484	1,316	
GRAND TOTAL ...		908,220	1,015,331	74,180	941,151	10,627	

*Eándrá, 15th October 1897.*R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 54.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Area closed and open to Grazing during 1896-97.

Division,	AREA IN SQUARE MILES.						REMARKS.
	Closed to all animals.		Closed to browsers (camels, goats or sheep).		Open to all animals.	Total Area.	
	Whole year.	Part of year.	Whole year.	Part of year.	Whole year.		
1	2	3	4	5	6	7	8
	Square miles.	Square miles.					
North Tháná	76	3	387	.....	303	387	
Central Tháná	42½	.....	377¾	.....	.....	377¾	
South Tháná	61¼	.....	359¾	.....	.....	421	
Surat	31¼	38¼	69½	.....	678	747½	
Panch Maháls	108	225	332½	.....	.....	332½	
Total	319	266¼	1,506¼	.....	986	2,265¾	

Bándrá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 55.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Return of Grazing in the State Forests during 1896-97.

Division.	GRAZING ON PAYMENT—NUMBER OF ANIMALS.												GRAZING FREE—NUMBER OF ANIMALS.											Grand Total of Value at full rates.			
	At full rates.					At privileged rates.							By right under Settlement.					During pleasure of Government, or otherwise than under Settlement.					Total Value of Fees at full rates.				
	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Fees received.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Fees received.		Buffaloes.	Cows and Bullocks.	Goats and Sheep.	Camels.	Other Animals.	Value of Fees at full rates.	Buffaloes.	Cows and Bullocks.	Goats and Sheep.			Camels.	Other Animals.	Value of Fees at full rates.
												Actual.	Value at full rates.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
						Rs. a. p.						Rs. a. p.	Rs. a. p.						Rs. a. p.						Rs. a. p.	Rs.	Rs.
North Tháná ...	24	159	...	...	...	129 6 0	76	186	...	...	...	53 14 0	211 14 0	...	...	...	...	...	.....	16,666	96,021	..	...	162	80,946 14 0	80,946 14 0	81,288 2 0
Central Tháná ...	84	569	...	..	...	947 4 0	437	664	...	...	...	233 12 0	633 8 0	...	...	...	...	...	.....	16,515	56,045	...	...	...	43,510 10 0	43,510 10 0	45,091 6 0
South Tháná ...	106	1,675	...	...	...	1,179 6 0	252	1,821	...	...	...	538 15 0	1,465 10 0	2,971	3,657	...	...	...	4,999 6 0	12,561	52,681	3,174	...	103	48,686 8 0	53,685 14 0	56,330 14 0
Surat ...	878	4,621	...	...	...	1,659 8 0	...	...	...	...	...	...	.....	...	...	...	...	...	.....	57	215	...	...	...	165 8 0	165 8 0	1,825 0 0
Panch Maháls ...	836	1,923	...	...	...	1,787 8 0	578	2,968	...	...	...	376 0 0	2,062 0 0	...	...	...	...	...	.....	8,401	73,922	...	...	...	8,862 0 0	8,862 0 0	12,711 8 0
Total ...	1,928	8,947	...	...	...	5,703 0 0	1,343	5,639	...	...	...	1,202 9 0	4,373 0 0	2,971	3,657	...	...	...	4,999 6 0	54,200	278,884	3,174	...	265	1,82,171 8 0	1,87,170 14 0	1,97,246 14 0

Bándrá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 56.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Area of plantations, 1896-97.

Division.	Name of Plantation.	AREA IN ACRES.				RECEIPTS	CHARGES	REMARKS.
		On 1st July 1896.	Added during the year.	Excluded during the year.	Area of 30th June 1897.	of the year.		
1	2	3	4	5	6	7	8	9
	<i>Regular Plantations.</i>					Rs.	Rs.	
North Tháná ...	Máhim	22	...	...	22	...	...
	Dáhanu	4	...	...	4	...	...
	Umbergaon	133	...	...	133	215	88 3 0	
	Total	159	...	...	159	215	88 3 0	
Central Tháná ...	Bassein	2	...	...	2	}	454 6 0	
	Wádá	117	...	...	117			
	Khardi	80	...	...	80			
	Mokháda	108	...	...	108			
	Total	307	...	...	307	...	454 6 0	
South Tháná ...	Sálsette	149	7 20	...	156 20	...	73 5 9	
	Kalyán	95	144 20	144 33	94 27	...	96 4 0	
	Bhiwandi	310	38 36	...	348 36	...	123 14 0	
	Murbád	97	102 0	...	199 0	...	87 8 0	
	Sháhápúr	131	45 0	44 26	131 14	...	125 8 0	
	Total	782	337 36	189 19	930 17	...	506 7 9	
Surat	Total ... ..	...	...	...	...	...	...
Panch Maháls ...	Godhra	106	113	105	114 0	...	594 13 10	
	Hálol	28	14	28	14 0	...	20 3 3	
	Kálol... ..	30	44	30	44 0	...	1 15 0	
	Dohad	14	22	14	22 0	...	14 10 0	
	Jhálod	8	494	8	494 0	...	55 6 0	
	- Total	186	687	185	688 0	...	693 0 1	
	Total Regular Plantations...	1,434	1,024 36	374 19	2,084 17	...	1,742 0 10	
	<i>Cultural Operations.</i>							
North Tháná ...	Máhim	9,965	46	...	10,011	...	208 10 9	
	Dáhanu	9,751	40	...	9,791	...	341 7 6	
	Umbergaon	4,104	141	...	4,245	...	231 6 9	
	Total	23,820	227	...	24,047	...	781 9 0	
Central Tháná ...	Bassein	7,655	1,200	...	8,855	...	...
	Wádá	3,992	99	...	4,091	...	...
	Khardi	878	40	...	918	...	...
	Mokháda	819	97	...	916	...	...
	Total	13,344	1,436	...	14,780	...	...
South Tháná ...	Sálsette	1,202	7 20	...	1,209 20	...	...
	Kalyán	2,107	84 20	34 30	2,106 30	...	...
	Bhiwandi	1,091	35 10	...	1,126 10	...	...
	Murbád	1,065	31 0	...	1,096 0	...	...
	Shuhápúr	1,243	20 20	...	1,263 20	...	...
	Total	6,708	128 30	34 30	6,802 0	...	...
Surat	Dángs	9	...	...	9	...	104 8 7	
	Mandvi	866	7	...	873	...	39 0 0	
	Bulsár	349	45	...	394	...	...
	Choráshi	3	...	...	3	}	665 9 3	
	Párdi... ..	73	30	...	103		...	
	Chikhli	400	18	...	418		25 2 0	
	Total	1,700	100	...	1,800	...	834 3 10	
Panch Maháls ...	Godhra	47	...	...	47	...	...
	Hálol	16	...	...	16	...	...
	Kálol... ..	20	...	...	20	...	...
	Dohad	32	...	...	32	...	...
	Jhálod	12	...	...	12	...	...
	Total	127	...	...	127	...	...
	Total, Cultural Operations...	45,699	1,891 30	34 30	47,556 0	...	1,615 12 10	
	Add—Total, Regular Operations	1,434	1,024 36	374 19	2,084 17	...	1,742 0 10	
	Grand Total	47,133	2,916 26	409 9	49,640 17	...	3,357 13 8	

R. C. WROUGHTON,

Conservator of Forests, Northern Circle,

Bándrá, 15th October 1897.

B 1428—10 N C

FORM No. 57.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Outturn (in cubic feet, solid) of Timber and Fuel during the year 1896-97, and Agency of Exploitation.

Division.	TIMBER IN THE ROUGH ; LOGS.					TIMBER IN THE ROUGH ; POLES.					SAWN OR SQUARED TIMBER.					MISCELLANEOUS.					FUEL.					TOTAL.
	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Government.	Purchasers.	Free grantees.	Right-holders.	Total.	Outturn.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
North Tháná ...	...	...	...	...	...	9,375	589,263	105	...	599,743	...	...	...	...	...	...	Bamboos 227,030 Bamboo cart-loads 3,727 Bamboo head-loads 3,018	...	Bamboos 52,040 Bamboo cart-loads 3,727 Bamboo head-loads 3,018	Bamboos 279,090 Bamboo cart-loads 3,727 Bamboo head-loads 3,018	17,714	1,336,421	...	991,996	2,346,131	Timber and firewood 2,945,874 C. ft. Bamboos No. 279,090 Do. cart-loads 3,727 Bamboos head-loads 3,018
Central Tháná...	8,985	9,010	1,575	...	19,560	...	374,848	...	...	374,848	...	...	...	...	...	...	Bamboo cart-loads 961 Bamboo head-loads 686 Bamboo 1,092,756	Bamboos 5,000	...	Bamboo cart-loads 961 Bamboo head-loads 686 Bamboos 1,097,756	...	692,537	500,900	...	1,192,537	Timber and firewood 1,586,945 C. ft. Bamboo cart-loads 961 Bamboo head-loads 686
South Tháná ...	1,377	63,920	3,258	...	68,555	4,509	330,424	...	...	334,943	...	38,117½	...	...	38,117½	1,068	Cart loads 370 Head-loads 559 Bamboos 4,102	...	...	1,063 Cart-loads 370 Head-loads 559 Bamboos 4,102	9,247½	882,031	...	22,550	863,828½	Timber and firewood 1,306,612 C. ft. Cart-loads 370 Head-loads 559 Bamboos 4,102
Surat ...	18,192	5,088	412	...	23,692	67,998	16,830	4,146	...	93,170	...	8,746	...	...	8,746	Bamboos 1,118 Paranas 359,336 Ganjas 16,725 Pipes 2,493 Pipes 662	Bamboos 6,675	...	Bamboos 367,129 Paranas 16,725 Ganjas 2,493 Pipes 662	20,900	39,460	...	15,000	75,360	Timber 121,562 C. ft. Firewood 75,360 C. ft. Bamboos 367,129 Paranas 16,725 Ganjas 2,493 Pipes 662	
Panch Maháls ...	1,451	613	218	...	2,282	4,972	631,175	16	...	636,163	...	...	...	...	...	Bamboos 464 Do. carts 15	Bamboos 62,760 Do. carts 15	Bamboos 160	...	Bamboos 63,384 Do. carts 15	697,115	137,790	...	...	207,505	Timber C. ft. 638,445 Bamboos No. 63,384 Do. carts 15 Firewood 207,505 C. ft.
Total ...	30,005	78,631	5,433	...	114,089	86,854	1,942,600	4,267	...	2,038,867	...	46,863½	...	...	46,863½	Timber 1,068 Bamboos 1,582	Bamboos 1,746,001 Paranas 16,725 Ganjas 2,493 Pipes 662 Bamboo cart-loads 5,073 Bamboo head-loads 4,263	Bamboos 11,835	Bamboos 52,010	Bamboos 1,807,359 Paranas 16,725 Ganjas 2,493 Pipes 662 Timber 1,068 Cart-loads 5,073 Head-loads 4,263	117,576½	3,038,239	500,000	1,029,546	4,685,361½	Timber and firewood 6,886,249 C. ft. Bamboos No. 1,811,461 Do. cart-loads 5,073 Bamboo head-loads 4,263 Paranas 16,725 Ganjas 2,493 Pipes 662

Charcoal should be shown by its equivalent in fuel, the quantity of wood consumed in producing it being entered in cubic feet solid.

Bándrá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Outturn of Minor Forest Produce.

Division.	Description of Produce.	PRODUCE REMOVED OR UTILIZED.									
		By Government Agency.		By Purchasers.		By free-grants.		By right-holders.		Total.	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			Rs.		Rs. a. p.		Rs.		Rs.		Rs. a. p.
North Tháná.	Palm leaves ... ..	...	...	.....	435 0 0	...	...	...	...	.....	435 0 0
	Karvi... ..Cart-loads ...	...	...	425	126 4 0	...	...	...	...	425	126 4 0
	Do. ... ..Head-loads ...	...	...	513	23 0 0	...	...	...	...	513	23 0 0
	Tahal for ráb... ..	...	...	.....	40 15 6	...	...	...	...	.....	40 15 6
	Total ... ..	...	...	.....	625 3 6	...	...	...	...	.....	625 3 6
Central Tháná.	Karvi... ..Cart-loads ...	...	...	2,274	481 8 0	...	...	...	...	2,274	481 8 0
	Do. ... ..Head-loads ...	...	...	164	7 0 9	...	...	...	...	164	7 0 9
	Apta and Temburni leaves and Beheda nuts ... ..	...	...	.....	400 0 0	...	...	...	...	.....	400 0 0
	Palm leaves ... ..	...	...	.....	500 0 0	...	...	...	...	.....	500 0 0
	Myrabolams ... ..	...	...	.....	300 0 0	...	...	...	...	.....	300 0 0
	Miscellaneous... ..	...	...	.....	2 0 0	...	...	...	...	.....	2 0 0
	Total ... ..	...	...	.....	1,690 8 9	...	...	...	...	.....	1,690 8 9
South Tháná.	Myrabolams ... ..	...	...	.....	154 12 10	...	...	...	...	.....	154 12 10
	Karvi... ..Cart-loads ...	...	...	942	636 10 0	...	...	...	...	942	636 10 0
	Do. ... ..Head-loads ...	...	...	5,941	576 8 6	...	...	...	...	5,941	576 8 6
	Thorns ... ..Cart-loads ...	...	...	20	25 0 0	...	...	...	...	20	25 0 0
	Do. ... ..Head-loads ...	...	...	4	0 10 6	...	...	...	...	4	0 10 6
	Tahal ... ..Do. ...	...	...	8	0 6 0	...	...	...	...	8	0 6 0
	Dead Palm trees ... ..	...	...	7	3 7 3	...	...	...	...	7	3 7 3
	Palm leaves ... ..	...	...	.....	851 8 0	...	...	...	...	.....	851 8 0
	Apta and Temburni leaves ...	...	...	.....	1,964 12 0	...	...	...	...	.....	1,964 12 0
	Miscellaneous... ..	...	...	.....	2 3 6	...	...	...	...	.....	2 3 6
	Total ... ..	...	...	.....	4,215 14 7	...	...	...	...	.....	4,215 14 7
Surat.	Grass and reeds... ..Carts.	...	...	1,663	415 12 0	...	...	...	...	1,663	415 12 0
	Palms and Date-palm trees .	...	...	979	489 4 0	...	...	...	...	979	489 4 0
	Palm leaves ... ..	...	...	225	5 10 0	...	...	...	...	225	5 10 0
	Mowra flowers ... ..	...	...	Mds. seers. 7,099 10	118 9 7	...	...	...	...	Mds. seers. 7,099 10	118 9 7
	Do. do. from the Mándvi Forests ... ..	...	...	.....	600 0 0	...	...	...	...	.....	600 0 0
	Mowra fruits ... ..	...	...	Mds. seers. 57 20	3 9 6	...	...	...	...	Mds. seers. 57 20	3 9 6
	Ashindra leaves ...Bundles.	...	...	722,150	138 2 2	...	...	...	...	722,150	138 2 2
	Miscellaneous Hirda fruits ...	...	...	Mds. seers. 98 2	7 7 3	...	...	...	...	Mds. seers. 98 2	7 7 3
	Temburni leaves ...Carts...	...	...	8	20 0 0	...	...	...	...	8	20 0 0
	Bamboo Articles ... ..	...	...	24,100	629 8 1	...	...	...	...	24,100	629 8 1
	Chilari Bark from the forests of Surat Division ... ..	...	...	.....	302 0 0	...	...	...	...	.....	302 0 0
	Apta and Temburni leaves from the Forest of Surat Division except Dangs ...	...	...	.....	102 0 0	...	...	...	...	.....	102 0 0
	Bábul Thorns... ..Carts...	...	...	79	19 12 0	...	...	...	...	79	19 12 0
	Total ... ..	...	...	.....	2,851 10 7	...	...	...	...	.....	2,851 10 7
Panch Maháls.	Mowra flowers ... ..	...	...	.....	144 7 0	...	...	...	...	.....	144 7 0
	Thorns ... ..Carts...	...	...	43	10 12 0	...	...	...	...	43	10 12 0
	Salda wood ... ..Head-loads.	...	...	27	1 11 0	...	...	...	...	27	1 11 0
	Sili-wood ... ..Carts...	...	...	43	10 12 0	...	...	...	...	43	10 12 0
	Earth ... ..Cubic Yards.	...	...	9½	0 9 3	...	...	...	...	9½	0 9 3
	Stores ... ..Carts.	...	...	4	3 2 0	...	...	...	...	4	3 2 0
	Total ... ..	...	...	.....	171 5 3	...	...	...	...	.....	171 5 3
	Grand Total ... ..	...	...	.....	9,554 10 8	...	...	...	...	.....	9,554 10 8

R. C. WROUGHTON,

Bándrá, 15th October 1897.

Conservator of Forests, Northern Circle.

FORM No. 59.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts or sold locally during the year 1896-97.

Particulars.	Number or Quantity.	Cubic feet.	TOTAL OF EACH HEAD.		Particulars.	Number or Quantity.	Cubic feet.	TOTAL OF EACH HEAD.	
			Number or Quantity.	Cubic feet.				Number or Quantity.	Cubic feet.
<i>Balance at the commencement of the year.</i>					<i>Sold locally.</i>				
North Tháná ... ..	...	...	...	...	North Tháná—				
Central Tháná—					Teak pieces... ..	21	105		
Teak pieces... ..	443	1,329	...	...	Junglewood pieces... ..	1,597	7,985		
Junglewood pieces	80	240	523	1,569	Central Tháná—				
South Tháná ... ..	...	...	...	...	Teak pieces... ..	712	2,674		
Surat—					Junglewood pieces... ..	1,421	6,945		
Teak pieces... ..	285	6,604	285	6,604	South Tháná—				
Panch Maháls—					Teak pieces... ..	1,962	5,886		
Teak pieces, including beams	2,691	3,807			Junglewood pieces... ..	356	1,068		
Teak rafters and poles ...	15,334	12,826			Surat—				
Junglewood pieces, rafters.	367	283			Teak pieces... ..	28,739	66,351		
			18,392	16,916	Mixed Timber	1,832	5,496		
					Panch Maháls—				
Total Balance ... ..	...	...	19,200	25,089	Teak pieces, including beams	1,891	2,489		
<i>Received from Forests in Depôts.</i>					Teak rafters and poles ...	14,160	9,954		
North Tháná—					Junglewood pieces	630	450	53,321	109,433
Teak pieces... ..	33	165			Total ... ..	...	...
Junglewood pieces... ..	1,842	9,210			<i>Balance at the close of the year.</i>				
Central Tháná—					North Tháná—				
Teak pieces... ..	432	2,160			Teak pieces... ..	12	60		
Junglewood pieces... ..	1,365	6,825			Junglewood pieces	245	1,225		
South Tháná—					Central Tháná—				
Teak pieces... ..	1,962	5,886			Teak pieces	163	815		
Junglewood pieces... ..	356	1,068			Junglewood pieces... ..	24	120		
Surat—					South Tháná—				
Teak pieces... ..	30,584	77,532			Junglewood pieces... ..	...	...
Mixed pieces	2,886	8,658			Surat—				
Panch Maháls—					Teak pieces... ..	2,130	17,885		
Teak pieces, including beams	1,737	2,079			Mixed pieces	1,054	3,062		
Teak rafters and poles ...	7,658	4,116			Panch Maháls—				
Junglewood pieces	304	228			Teak pieces, including beams	2,537	3,396		
			49,159	117,927	Rafters and poles	8,832	6,989		
					Junglewood pieces... ..	41	31		
Grand Total of Timber ...	...	...	68,359	143,016	Total ... ..	...	...	15,038	33,583
<i>Balance at the commencement of the year.</i>					Grand Total ... ..	...	...	68,359	1,43,016
North Tháná—					<i>Sold locally.</i>				
Firewood khandis	30	500			North Tháná Khs.	1,070	18,180		
Panch Maháls—					South do.	205½	9,247½		
Firewood khandis... ..	1,107½	49,815			Surat Carts.	530	4,600		
			1,137½	50,315	Panch Maháls Khs.	2,551	100,346	3,826½	132,373½
<i>Received during the year.</i>					<i>Balance at the close of the year.</i>				
North Tháná Khs.	1,042	17,714			North Tháná Khs.	2	34		
South Tháná	205½	9,247½			Surat Carts.	515	16,300	515	
Surat Carts.	1,045	20,900			Panch Maháls Khs.	544½	19,049	544½	
Panch Maháls Khs.	1,988	69,580			Head loads	27	135	27	
Head loads	27	135							
			3,235½	117,576½	<i>Sold locally.</i>				
Total ... {	...	Carts.	1,045	167,891½	Surat	482			
	...	Head loads.	27	BAMBOOS	Panch Maháls	1,477			
Panch Maháls... ..	1,013	...	1,013		<i>Balance at the close of the year...</i>	656			
<i>Received during the year.</i>					<i>Sold locally</i>	9,200			
Surat	1,118	...			<i>Balance at the close of the year...</i>	...			
Panch Maháls	464	...			<i>Used up during the year.</i>				
			1,582		Central Tháná	10 5 1½			
<i>Balance at the close of the year.</i>					South do.	59 6 2½			
Received during the year—					Panch Maháls	10 0 14			
Panch Maháls	9,200	...			<i>Balance at the close of the year.</i>				
			9,200		Central Tháná	34 2 1			
<i>Balance at the close of the year.</i>					Panch Maháls	11 0 21			
Panch Maháls... ..	K. m. s.	...	4 22 14						
			119 13 25½		Total ... ..	...	...	45 2 22	
<i>Received during the year.</i>									
Central Tháná	44 7 2	...							
South Tháná	59 6 2	...							
Panch Maháls	16 6 21	...							
			124 14 0						
Total ... ..	...	...	124 14 0	...					

R. C. WROUGHTON,

Deputy Conservator of Forests, Northern Circle.

Bándrá, 15th October 1897.

FORM No 60.

FOREST DEPARTMENT, BOMBAY, N. C.

Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1896-97.

Description of Timber and other produce.	ON HAND AT COMMENCEMENT OF THE YEAR.			ON HAND AT CLOSE OF THE YEAR.			DIFFERENCE IN VALUE.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
<i>North Tháná.</i>			Rs.			Rs.	Rs.	Rs.	
Teak pieces ...	...	...	...	12	60	} 15	...	45	
Junglewood pieces ...	...	...	...	245	1,225				
Firewood ...	80	500	60	2	34				
Total ...	...	...	60	...	...	15	...	45	
<i>Central Tháná.</i>									
Teak pieces ...	443	1,329	123	163	815	40	...	83	
Junglewood pieces ...	80	240	35	24	120	4	...	31	
Miscellaneous seeds ...	...	...	...	Kh. m. s. 34 2 1	...	...	...	...
Total ...	...	...	158	...	...	44	...	114	
<i>Surat.</i>									
Teak pieces ...	285	6,604	4,500	2,130	17,885	} 18,375	13,875	...	
Mixed timber ...	...	...	...	1,054	3,062				
Firewood carts ...	...	...	...	515	10,300				
Bamboos ...	...	...	...	636	...	...	...	...
Total ...	...	...	4,500	...	...	18,375	13,875	...	
<i>Panch Maháls.</i>									
Teak pieces including beams ...	2,691	3,807	} 2,000	2,537	3,396	} 1,105	...	895	
Teak rafters and poles.	15,334	12,826		8,832	6,989				
Junglewood trees, pieces and rafters ...	367	283		41	31				
Firewood ...	1,107½	49,815	500	544½	19,184	200	...	300	
Bamboos ...	1,013	...	10	...	...	...	...	10	
Miscellaneous seed ...	...	K. m. s. 4 22 14	...	K. m. s. 11 0 21	...	...	...	...
Total ...	...	...	2,510	...	...	1,305	...	1,205	
Grand Total ...	...	...	7,228	...	...	19,739	13,875	1,364	

Net difference in favour of the year Rs. 12,511.

R. C. WROUGHTON,

Conservator of Forests, Northern Circle.

Bándrá, 15th October 1897.

B 1428—11 NC

FORM No. 60A.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Abstract showing the Value of Live and Dead Stock for the year 1896-97.

Description of Live and Dead Stock.	ON HAND AT THE COMMENCEMENT OF THE YEAR.		ON HAND AT THE CLOSE OF THE YEAR.		DIFFERENCE IN VALUE.		REMARKS.
	No.	Value.	No.	Value.	In favour of the year.	Against the year.	
		Rs.		Rs.	Rs.	Rs.	
<i>Direction Office.</i>							
Office tent ...	1	420	1	420	...	...
Tools, plant and office furniture ...	...	451	...	649	...	...
Total ...	...	871	...	1,069	...	198	
<i>North Tháná.</i>							
Office tent ...	2	866	1	433	...	...
Small routies ...	2	166	1	83	...	...
Forest stations ...	38	570	38	570	...	...
Forest posts ...	88	894	88	894	...	...
Forest Dépôt house at Pálghar ...	1	1,083	1	1,083	...	...
Do. Mánor ...	1	1,083	1	1,083	...	...
Do. Sáwta ...	1	1,083	1	1,083	...	...
Do. Sanján ...	1	1,083	1	1,083	...	...
Do. Wángáon ...	1	1,053	1	1,053	...	...
Great coats ...	185	1,112	121	758	...	...
Tools, plant and office furniture ...	...	2,593	...	1,721	...	...
Total ...	...	11,586	...	9,844	1,742	...	
<i>Central Tháná.</i>							
Office tent ...	...	...	1	433	...	...
Small routy ...	...	...	1	83	...	...
Great coats ...	...	...	121	834	...	...
Párol bungalow ...	1	1,200	1	1,200	...	...
Forest Dépôt house at Mándvi ...	1	250	1	250	...	...
Do. Kasará ...	1	1,061	1	1,061	...	...
Do. Mánikpur ...	1	603	1	603	...	...
Tools, plant and office furniture ...	...	500	...	128	...	...
Total ...	...	3,614	...	4,592	...	978	
<i>South Tháná.</i>							
Office tent ...	1	433	1	433	...	...
Small routy ...	1	223	1	130	...	...
Great coats ...	178	1,699	178	1,250	...	...
Tánsa Forest bungalow ...	1	1,871	1	1,871	...	...
Forest Dépôt house at Vásind ...	1	1,173	1	1,173	...	...
Do. A'tgaon ...	1	1,061	1	1,061	...	...
Do. Vángni ...	1	1,173	1	1,173	...	...
Tools, plant and office furniture ...	...	1,228	...	1,162	...	...
Total ...	...	8,861	...	8,253	608	...	

FORM No. 60A—continued.

Description of Live and Dead Stock.	ON HAND AT THE COMMENCEMENT OF THE YEAR.		ON HAND AT THE CLOSE OF THE YEAR.		DIFFERENCE IN VALUE.		REMARKS.
	No.	Value.	No.	Value.	In favour of the year.	Against the year.	
<i>Surat.</i>		Rs.		Rs.	Rs.	Rs.	
Office tent ...	1	433	1	433	...	...
One pair of bullocks ...	...	...	2	100	...	...
Great coats ...	65	455	65	455	...	...
Mándvi bungalow ...	1	1,800	1	1,800	...	...
Andhatri do. ...	1	291	1	291	...	...
Dadhwadá do. ...	1	80	1	80	...	...
Tarápur do. ...	1	100	1	100	...	...
Large bungalow at Waghai ...	1	1,099	1	1,099	...	...
Small do. do. ...	1		1		...	...
Large bungalow at Pimpri ...	1	499	1	499	...	...
Do. at Gárví ...	1	1,012	1	1,012	...	...
Small do. at do. ...	1	288	1	288	...	...
Gandevá post ...	1	61	1	61	...	...
Sarovar bungalow ...	1	2,379	1	2,379	...	...
Mheskatri do. ...	1	1,500	1	1,500	...	...
Pipaldáhd do. ...	1	457	1	457	...	...
Mahal do. ...	1	1,500	1	1,500	...	...
Waghai Forest post ...	1	77	1	77	...	...
Ahwa rest-house ...	1	2,000	1	2,000	...	...
Wágrech Forest post... ..	...	...	1	195	...	...
Ahwá do. ...	...	...	1	24	...	...
Lakhákhám do. ...	...	...	1	15	...	...
Tools, plant and office furniture ...	...	3,295	...	3,383	...	...
Total ...	...	17,326	...	17,748	...	422	
<i>Panch Maháls.</i>							
Rest-houses and Depôts ...	19	468	21	1,254	...	...
Bungalow at Godhrá ...	1	8,200	1	8,200	...	...
Office tent	1	433	1	433	...	...
Great coats ...	110	774	110	774	...	...
Tools, plant and office furniture ...	...	1,721	...	2,720	...	...
Total ...	...	11,746	...	13,531	1,785	...	
<i>Working Plans.</i>							
Office tent ...	1	35	1	433	...	...
Tools, plant and office furniture ...	...	587	...	500	...	...
Total ...	...	622	...	933	...	311	
Grand Total ...	...	54,626	...	55,970	4,135	1,909	

Bándrá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FORM No. 61.

FOREST DEPARTMENT, BOMBAY—NORTHERN CIRCLE.

Summary of Revenue and Expenditure of the different Divisions for the Forest year 1896-97.

Budget Heads.	Direction.	North Tháná Division.	South Tháná Division.	Central Tháná Division.	Surat Division.	Panch Maháls Division.	Working Plans Division.	Bombay Forests Surveys.	Total for the Forest year 1896-97.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
REVENUE.									
<i>I.—Timber and other Produce removed from the Forests by Government Agency—</i>									
a. Timber	1,325 0 0	388 4 3	880 1 0	21,172 6 6	844 0 0	.....	.....	24,609 11 9
b. Firewood and charcoal	1,348 14 0	250 1 0	.....	305 8 0	871 7 0	.....	.....	2,775 14 0
c. Bamboos	1 8 0	6 3 9	.....	.....	7 11 9
d. Sandalwood
e. Grass and other minor produce
Total, I	2,673 14 0	638 5 3	880 1 0	21,479 6 6	1,721 10 9	.....	.....	27,393 5 6
<i>II.—Timber and other Produce removed from the Forests by Consumers or Purchasers—</i>									
a. Timber	1,94,475 8 6	1,38,834 6 10	56,864 2 7	17,770 14 11	53,309 2 6	.....	.....	4,61,254 3 4
b. Firewood and charcoal	1,073 0 11	193 2 3	1,236 3 2	719 13 0	1,900 8 3	.....	.....	5,122 11 7
c. Bamboos	10,650 6 10	556 9 0	4,327 7 0	19,949 3 1	1,115 4 3	.....	.....	36,598 14 2
d. Grazing and fodder grass	11,789 5 0	2,746 8 0	162 11 0	2,065 6 0	5,907 10 0	.....	.....	22,671 8 0
e. Other minor produce...	625 3 6	4,215 14 7	1,690 8 9	2 851 10 7	171 5 3	.....	.....	9,554 10 8
Total, II	2,18,613 8 9	1,46,546 8 8	64,281 0 6	43,356 15 7	62,403 14 3	.....	.....	5,35,201 15 9
<i>III.—Drift and Waif Wood and confiscated Forest Produce</i>									
.....	120 2 1	339 6 8	162 9 4	550 3 8	234 9 0	.....	.....	1,406 14 9
Total, III	120 2 1	339 6 8	162 9 4	550 3 8	234 9 0	.....	.....	1,406 14 9
<i>IV.—Revenue from Forests not managed by Government—</i>									
a. Duty on foreign timber and other forest produce	50 0 0	.....	.....	.....	.....	50 0 0
b. Revenue from shared and private forests...	128 8 0	29 10 4	300 0 3	35 13 9	.....	.....	.....	494 0 4
Total, IV	128 8 0	29 10 4	350 0 3	35 13 9	.....	.....	.....	544 0 4
<i>V.—Miscellaneous—</i>									
a. Fines and forfeitures	6,040 6 7	272 15 3	587 3 3	15 1 0	243 12 6	.....	.....	7,159 6 7
b. Refunds	18 12 0	438 2 11	7 7 0	12 0 0	42 15 10	5 1 3	0 15 10	.....	525 6 10
c. Other sources	16 6 0	3,084 7 8	4,115 10 0	2,034 12 10	768 9 10	1,187 4 4	19 0 3	.....	11,206 2 11
Total, V	35 2 0	9,543 1 2	4,396 0 3	2,634 0 1	826 10 8	1,436 2 1	20 0 1	.....	18,891 0 4
Grand Total, Revenue	35 2 0	2,31,079 2 0	1,51,949 15 2	68,307 11 2	66,249 2 2	65,796 4 1	20 0 1	.....	5,83,437 4 8

EXPENDITURE.

A.—CONSERVANCY AND WORKS.

I.—Timber and other Produce removed from the Forests by Government Agency—

a. Timber...	190 5 0	106 1 9	293 6 6	13,924 10 8	399 9 0	.....	.....	14,914 0 11
b. Firewood and charcoal	316 11 0	19 5 0	.....	31 11 0	.....	.....	.....	367 11 0
c. Bamboos	.....	.....	.....	.....	.....	.....	.....	.....
d. Sandalwood	.....	.....	.....	.....	.....	.....	.....	.....
e. Grass and other minor produce	.....	.....	.....	.....	.....	.....	.....	.....

Total, A—I ... 507 0 0 125 6 9 293 6 6 13,956 5 8 399 9 0 15,281 11 11

II.—Timber and other Produce removed from the Forests by Consumers or Purchasers...

Total, A—II ... 3,938 6 6 3,038 9 6 1,946 11 5 3,062 14 0 1,565 10 0 13,552 3 5

III.—Drift and Waif Wood and confiscated Forest Produce

Total, A—III ... 69 0 3 8 10 0 7 7 0 27 12 8 2 6 0 115 3 11

IV.—Revenue from Forests not managed by Government—

a. Duty on foreign timber and other timber produce	.....	.....	.....	.....	.....	.....	.....	.....
b. Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....	.....

Total, A—IV ... -25 9 6 -25 9 6

V.—Rent of leased Forests and payments to Shareholders in Forests managed by Government

Total, A—V ... 429 4 8 18,248 14 4 18,678 3 0

VI.—Live-Stock, Stores, Tools and Plant—

a. Purchase of cattle	.....	.....	.....	100 0 0	.....	.....	.....	100 0 0
b. Feed and keep of cattle	.....	.....	.....	220 12 4	230 14 2	.....	.....	451 10 6
c. Purchase of stores, tools and plant	228 8 0	236 7 6	151 1 0	547 8 9	1,879 3 4	283 0 0	490 0 6	3,815 13 1

Total, A—VI ... 228 8 0 236 7 6 151 1 0 547 8 9 2,199 15 8 513 14 2 490 0 6 4,367 7 7

Carried over Total of Heads A—I to A—VI 228 8 0 4,750 14 3 3,752 15 11 2,795 1 8 37,470 4 10 2,481 7 2 490 0 6 51,969 4 4

FORM No. 61—continued.

Budget Heads.	Direction.	North Thána Division.	South Thána Division.	Central Thána Division.	Surat Division.	Panch Mahals Division.	Working Plans Division.	Bombay Forest Survey Division.	Total for the Forest year 1896-97.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
Brought over Total of Heads A I to A VI ...	228 8 0	4,750 14 3	3,752 15 11	2,795 1 8	37,470 4 10	2,481 7 2	490 0 6	.....	51,969 4 4
EXPENDITURE—continued.									
A.—CONSERVANCY AND WORKS—continued.									
VII.—Communications and Buildings—									
a. Roads and bridges ... ..	.....	957 5 0	.....	.....	1,736 12 9	.....	.....	.....	2,694 1 9
b. Buildings ... ..	.....	610 6 6	395 11 0	223 7 0	1,219 10 10	1,205 9 2	.....	.....	3,654 12 6
c. Other works ... ..	.....	.....	1 14 0	.....	241 10 0	254 12 0	.....	.....	498 4 0
Total, A VII ...	.....	1,567 11 6	397 9 0	223 7 0	3,198 1 7	1,460 5 2	.....	.....	6,847 2 3
VIII.—Organization, Improvement, and Extension of Forest—									
a. Demarcation ... ..	.....	2,022 12 0	1,222 12 0	818 15 8	916 8 0	488 14 0	.....	.....	5,469 13 8
b. Cost of settlements; compensation for land and rights ... ..	.....	124 14 0	13,191 4 7	.....	68 7 4	63 5 6	.....	.....	13,452 15 5
c. Surveys ... ..	.....	14 0 0	.....	.....	.....	.....	.....	10,627 9 2	10,641 9 2
d. Working plans ... ..	.....	509 15 0	208 6 0	254 11 0	429 8 3	467 2 9	12,066 15 2	.....	13,936 10 2
e. Sowing and planting ... ..	.....	929 1 9	768 3 2	49 11 6	846 6 11	1,953 4 1	.....	.....	4,546 11 5
f. Protection from fire ... ..	.....	1,951 14 0	2,610 0 5	1,613 10 11	1,316 5 3	3,135 13 7	.....	.....	10,627 12 2
g. Other works ... ..	.....	696 4 9	115 12 0	158 1 6	454 14 0	.....	.....	.....	1,425 0 3
Total, A VIII ...	.....	6,248 13 6	18,116 6 2	2,895 2 7	4,032 1 9	6,113 7 11	12,066 15 2	10,627 9 2	60,100 8 3
IX.—Miscellaneous—									
a. Law charges ... ..	.....	.....	.....	.....	.....	.....	.....	.....	.....
b. Other charges	71 15 11	1,754 8 9	2,449 5 9	867 14 10	260 9 3	1,530 2 7	170 7 2	.....	7,105 0 3
Total, A IX ...	71 15 11	1,754 8 9	2,449 5 9	867 14 10	260 9 3	1,530 2 7	170 7 2	.....	7,105 0 3
Total, A—Conservancy and Works ...	300 7 11	14,322 0 0	24,716 4 10	6,781 10 1	44,961 1 5	11,585 6 10	12,727 6 10	10,627 9 2	1,26,021 15 1

B.—ESTABLISHMENTS.

I.—Salaries—

a. Conservators	16,000 4 4	...	...	...	...	...	...	...	16,000 4 4
b. Superior officers	700 0 0	10,700 0 0	9,270 15 6	3,850 0 0	10,645 2 7	6,220 12 1	4,980 7 11	...	46,367 6 1
c. Subordinate forest and depôt establishments ... ..	...	18,431 1 7	23,279 8 6	8,029 9 11	9,741 12 0	12,320 8 10	...	...	71,802 8 10
d. Office establishments	4,086 10 10	2,775 15 11	2,912 8 1	1,267 1 4	2,499 7 4	2,061 15 10	1,262 1 5	...	16,865 12 9
e. Deputation and special allowances... ..	...	45 3 3	18 0 0	186 2 4	1,117 6 10	...	...	...	1,366 12 5
f. Exchange compensation allowance—									
1. Conservators	1,858 7 11	...	...	...	...	...	...	...	1,858 7 11
2. Deputy Conservators ... ..	...	566 1 4	...	...	979 15 0	...	347 5 6	...	1,893 5 10
3. Assistant Conservators	97 0 2	210 3 9	191 1 1	210 3 9	...	...	240 8 6	...	949 1 3
4. Extra Assistant Conservators ... ..	...	...	...	...	...	630 13 11	...	...	630 13 11
Total, B I	22,742 7 3	32,728 9 10	35,672 1 2	13,543 1 4	24,983 11 9	21,234 2 8	6,830 7 4	...	1,57,734 9 4

II.—Travelling Allowances—

a. Conservators	2,400 0 0	...	...	...	...	...	...	...	2,400 0 0
b. Superior officers ... ..	...	3,069 7 6	2,300 15 9	1,449 8 4	2,604 10 0	1,405 10 4	877 0 6	...	11,707 4 5
c. Subordinate forest and depôt establishments ... ..	...	733 9 10	865 14 5	350 11 10	985 3 6	1,054 14 5	...	...	3,990 6 0
d. Office establishments	1,156 1 4	904 11 9	873 13 0	399 6 9	922 12 6	706 1 9	356 9 0	...	5,319 8 1
Total, B II	3,556 1 4	4,707 13 1	4,040 11 2	2,199 10 11	4,512 10 0	3,166 10 6	1,233 9 6	...	23,417 2 6

III.—Contingencies—

a. Stationery	96 3 9	222 5 0	314 4 9	126 10 8	241 3 0	203 13 8	21 11 0	...	1,226 3 10
b. Carriage of tents and records	295 0 0	438 6 9	235 12 9	202 14 0	197 3 1	196 3 0	245 7 6	...	1,810 15 1
c. Rents, rates and taxes	480 0 0	232 8 0	125 8 0	69 9 7	80 13 5	...	180 0 0	...	1,168 7 0
d. Pay and police guards ... ..	...	...	...	...	...	...	...	...	...
e. Official postage	343 0 0	632 10 0	938 13 6	312 6 0	433 3 6	366 10 3	221 5 0	...	3,248 0 3
f. Sundries	405 13 10	341 3 9	261 5 5	117 1 4	367 7 8	501 10 10	94 12 9	...	2,089 7 7
Payments to officers of other Provinces	3,163 15 7	...	...	...	...	...	...	...	3,163 15 7
Total, B III	4,784 1 2	1,867 1 6	1,875 12 5	828 9 7	1,319 14 8	1,268 5 9	763 4 3	...	12,707 1 4

TOTAL B.—ESTABLISHMENTS

GRAND TOTAL OF EXPENDITURE

...	31,082 9 9	39,303 8 5	41,588 8 9	16,571 5 10	30,816 4 5	25,669 2 11	8,827 5 1	...	1,93,858 13 2
...	31,383 1 8	53,625 8 5	66,304 13 7	23,352 15 11	75,777 5 10	37,254 9 9	21,554 11 11	10,627 9 2	3,19,880 12 3

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Annual Account Current for the Forest year 1896-97.

	Rs.	a.	p.	Rs.	a.	p.		Rs.	a.	p.	Rs.	a.	p.
To Opening Balance ... ..	.....			3,142	1	1	By 1. Refunds and Drawbacks—Refunds—						
„ VIII. Assessed Taxes—Income Tax—	.....						Divided Heaps, Forest ... ..	.....			1,587	2	10
Deductions by Government from Salaries and Pensions ... ..	.....			2,760	1	2	„ 11. Forest (as per Annual Summary Form No. 61) ... ..	.....			3,19,880	12	3
Tax on other sources of Income. Recoveries by Revenue authorities... ..	.....			.....			„ 14. Interest on other Obligations—						
„ IX. Forest (as per Annual Summary Form No. 61) ... ..	.....			5,83,437	4	8	Savings Banks Deposit—						
„ XII. Interest—	.....			.....			Interest on Forest Officers' Provident Fund ... ..	.....			17	9	2
Interest on Arrears of Revenue ... ..	.....			.....			„ 32. Miscellaneous—Miscellaneous Refunds—						
„ XXV. Miscellaneous—							Lapsed Deposits ... ..	.....			37	3	3
Sale-proceeds of Stores and Materials (Provincial) .	15	8	0				„ Revenue Deposits (Forests) ... ..	.....			36,534	5	10
Unclaimed Deposits—Other Deposits	223	11	0				„ Advances Recoverable—						
„ Bombay Uncovenanted Service Family Pension Fund—				239	3	0	Forest Advances	1,82,008	1	7			
Widows' Branch	721	7	10				Tentage Advances... ..	.....				
Life Assurance Branch ... ..	.....						Objection Book Advances	83,907	14	0			
„ Revenue Deposits (Forest) .	.....			721	7	10					2,65,915	15	7
„ Advances Recoverable—				39,859	10	1	„ Cash Recoveries ... ..	.....			4,370	13	6
Forest Advances	1,79,666	15	7				„ Cheques and Bills (Forest Cheques cancelled) ... ..	.....			11,081	5	6
Tentage Advances	25	0	0				„ Forest Remittances—						
Objection Book Advances	14,442	11	5				Remittances to Treasuries	6,26,881	4	10			
„ Cash Recoveries ... ..	.....			1,94,134	11	0	Inter-departmental Transfers	799	3	11			
„ Cheques and Bills (Departmental Cheques) Forest ... ..	.....			4,370	13	6					6,27,680	8	9
„ Forest Remittances—				4,31,570	6	0	„ Accounts Current—						
Remittances to Treasuries	618	1	11				Account between India and Bombay—						
Inter-departmental Transfers	5,130	3	2				IV. Items adjustable by India ... ..	.....			446	7	1
„ Accounts Current—				5,748	5	1	Account between Bombay and Public Works Department, Bombay—						
Account between India and Bombay—							Ordinary Branches—						
III. Items adjustable by India—							IV. Items adjusted by Public Works Department—						
Miscellaneous—							Inter-departmental Transfers... ..	.....			.....
Bengal Uncovenanted Service Family Pension Fund.	170	8	0				Miscellaneous ... ..	.....			.....
Account between Bombay and Public Works Department, Bombay—				170	8	0	„ Account between Bombay and Public Works Department—						
IV. Items adjustable by Public Works Department—							(Railway Branch)——— Railway—						
Payments into Treasuries by Civil Officers on account of Public Works Department ... ..	.....			13	0	0	IV. Items Adjustable by Public Works Department ... ..	.....			.....
Miscellaneous ... ..	.....			.....					
To Forest Officers' Provident Fund ... ..	.....			2,599	4	4							
Grand Total ..	.....			12,68,766	11	9	Closing Balance ... ..	.....			1,214	8	0
							Grand Total ... ..	.....			12,68,766	11	9

No. $\frac{F.}{15457}$

Forwarded to the Conservator of Forests, Northern Circle, under Section 267 of the Forest Department Code.

Accountant General's Office, }
Bombay, 2nd September 1897. }

E. LAWRENCE,
Accountant General.

FORM No. 63—Prescribed.

FOREST DEPARTMENT, BOMBAY, NORTHERN DIVISION.

Revenue received and Outstandings on account of Revenue during 1896-97.

B 1428-13 NC

Division.	Particulars.	Outstanding at commence- ment of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	REMARKS.
North Tháná ...	I.—Timber and other Produce removed from the Forests by Government Agency—		Rs. a. p.	Rs. a. p.	Rs. a. p.		
	(a). Timber ... ..	.....	1,325 0 0	1,325 0 0	1,325 0 0	.....
	(b). Firewood and charcoal ... ..	.....	1,348 14 0	1,348 14 0	1,348 14 0	.....
	(c). Bamboos ... ..	.....	.....	.....	.....	.....
	II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—						
	(a). Timber ... ..	.....	1,94,475 8 6	1,94,475 8 6	1,94,475 8 6	.....
	(b). Firewood ... ..	.....	1,073 0 11	1,073 0 11	1,073 0 11	.....
	(c). Bamboos ... ..	.....	10,650 6 10	10,650 6 10	10,650 6 10	.....
	(d). Grazing and fodder grass ... ..	.....	11,789 5 0	11,789 5 0	11,789 5 0	.....
	(e). Other minor produce ... ..	.....	625 3 6	625 3 6	625 3 6	.....
	III.—Drift and Waif Wood and Confiscated Forest Produce ... ..	.....	120 2 1	120 2 1	120 2 1	.....
	Total ...	.....	2,21,407 8 10	2,21,407 8 10	2,21,407 8 10	.....
Central Tháná ...	I.—Timber and other Produce removed from the Forests by Government Agency—						
	(a). Timber ... ..	.....	880 1 0	880 1 0	880 1 0	.....
	(b). Firewood and charcoal ... ..	.....	.....	.....	.....	.....
	(c). Bamboos ... ..	.....	.....	.....	.....	.....
	II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—						
	(a). Timber ... ..	.....	56,864 2 7	56,864 2 7	56,864 2 7	.....
	(b). Firewood ... ..	.....	1,236 3 2	1,236 3 2	1,236 3 2	.....
	(c). Bamboos ... ..	.....	4,327 7 0	4,327 7 0	4,327 7 0	.....
	(d). Grazing and fodder grass ... ..	.....	162 11 0	162 11 0	162 11 0	.....
	(e). Other minor produce ... ..	.....	1,690 8 9	1,690 8 9	1,690 8 9	.....
	III.—Drift and Waif Wood and Confiscated Forest Produce ... ..	.....	162 9 4	162 9 4	162 9 4	.....
	Total ...	.....	65,323 10 10	65,323 10 10	65,323 10 10	.....

Division.	Particulars.	Outstanding at commence- ment of year.	Value of Sales and other Revenue during year.	Total.	Amount realized during year.	Balance due to the Department at end of year.	REMARKS.
South Tháná ...	<i>I.—Timber and other Produce removed from the Forests by Government Agency—</i>		Rs. a. p.	Rs. a. p.	Rs. a. p.		
	(a). Timber ... ..	.....	388 4 3	388 4 3	388 4 3	.....
	(b). Firewood and charcoal ... ..	.....	250 1 0	250 1 0	250 1 0	.....
	(c). Bamboos ... ..	.....	.....	.....	.....	.....
	<i>II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—</i>						
	(a). Timber ... ..	.....	1,38,834 6 10	1,38,834 6 10	1,38,834 6 10	.....
	(b). Firewood ... ..	.....	193 2 3	193 2 3	193 2 3	.....
	(c). Bamboos ... ..	.....	556 9 0	556 9 0	556 9 0	.....
	(d). Grazing and fodder grass ... ..	.....	2,746 8 0	2,746 8 0	2,746 8 0	.....
	(e). Other minor produce ... ..	.....	4,215 14 7	4,215 14 7	4,215 14 7	.....
	<i>III.—Drift and Waif Wood and Confiscated Forest Produce ... ..</i>	.....	339 6 8	339 6 8	339 6 8	.....
	Total ... ..	.....	1,47,524 4 7	1,47,524 4 7	1,47,524 4 7	.....
Surat	<i>I.—Timber and other Produce removed from the Forests by Government Agency—</i>						
	(a). Timber ... ..	.....	21,172 6 6	21,172 6 6	21,172 6 6	.....
	(b). Firewood and charcoal ... ..	.....	305 8 0	305 8 0	305 8 0	.....
	(c). Bamboos ... ..	.....	1 8 0	1 8 0	1 8 0	.....
	<i>II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—</i>						
	(a). Timber ... ..	.....	17,770 14 11	17,770 14 11	17,770 14 11	.....
	(b). Firewood ... ..	.....	719 13 0	719 13 0	719 13 0	.....
	(c). Bamboos ... ..	.....	19,949 3 1	19,949 3 1	19,949 3 1	.....
	(d). Grazing and fodder grass ... ..	.....	2,065 6 0	2,065 6 0	2,065 6 0	.....
	(e). Other minor produce ... ..	.....	2,851 10 7	2,851 10 7	2,851 10 7	.....
	<i>III.—Drift and Waif Wood and Confiscated Forest Produce ... ..</i>	.....	550 3 8	550 3 8	550 3 8	.....
	Total ... ..	.....	65,386 9 9	65,386 9 9	65,386 9 9	.....

Panch Maháls...	I.—Timber and other Produce removed from the Forests by Government Agency—										
	(a). Timber	...	...	.....	844	0	0	844	0	0	.....
	(b). Firewood and charcoal	...	...	.....	871	7	0	871	7	0	.....
	(c). Bamboos	...	...	.....	6	3	9	6	3	9	.....
	II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—										
	(a). Timber	...	...	.....	53,309	2	6	53,309	2	6	.....
	(b). Firewood	...	...	.....	1,900	8	3	1,900	8	3	.....
	(c). Bamboos	...	...	.....	1,115	4	3	1,115	4	3	.....
	(d). Grazing and fodder grass	...	...	.....	5,907	10	0	5,907	10	0	.....
	(e). Other minor produce	...	...	.....	171	5	3	171	5	3	.....
III.—Drift and Waif Wood and Confiscated Forest Produce					234	9	0	234	9	0	.....
Total					64,360	2	0	64,360	2	0	.....
Total, Northern Circle.	I.—Timber and other Produce removed from the Forests by Government Agency—										
	(a). Timber	...	...	.....	24,609	11	9	24,609	11	9	.....
	(b). Firewood and charcoal	...	...	.....	2,775	14	0	2,775	14	0	.....
	(c). Bamboos	...	...	.....	7	11	9	7	11	9	.....
	II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—										
	(a). Timber	...	...	.....	4,61,254	3	4	4,61,254	3	4	.....
	(b). Firewood	...	...	.....	5,122	11	7	5,122	11	7	.....
	(c). Bamboos	...	...	.....	36,598	14	2	36,598	14	2	.....
	(d). Grazing and fodder grass	...	...	.....	22,671	8	0	22,671	8	0	.....
	(e). Other minor produce	...	...	.....	9,554	10	8	9,554	10	8	.....
III.—Drift and Waif Wood and Confiscated Forest Produce					1,406	14	9	1,406	14	9	.....
Total					5,64,002	4	0	5,64,002	4	0	.....

Bándrá, 15th October 1897.

R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Outstandings and Liabilities on account of Contractors and Disbursers for the Forest year 1896-97.

Divisions.	DEPARTMENT DEBTOR.			DEPARTMENT CREDITOR.			BALANCE DUE		REMARKS.
	At commence- ment of year.	Recoveries in cash and Value of Supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Depart- ment (Liabilities).	
1	2	3	4	5	6	7	8	9	10
<i>Contractors.</i>	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
North Tháná	200 0 0	200 0 0	200 0 0	...	
Surat	700 0 0	700 0 0	.....	700 0 0	700 0 0	.....	...
Panch Maháls	630 0 0	630 0 0	.....	630 0 0	630 0 0	.....	...
Total, Contractors	1,330 0 0	1,330 0 0	.....	1,530 0 0	1,530 0 0	200 0 0	...	
<i>Disbursers.</i>									
North Tháná	35,801 3 11	35,801 3 11	1,563 5 4	35,698 8 3	37,261 13 7	1,460 9 8	...	
South Tháná	51,252 0 6	51,252 0 6	1,241 5 1	50,976 9 1	52,217 14 2	965 13 8	...	
Central Tháná	18,756 5 1	18,756 5 1	.....	20,673 9 10	20,673 9 10	1,917 4 9	...	
Surat	39,697 11 9	39,697 11 9	209 12 0	39,611 8 11	39,821 4 11	123 9 2	...	
Panch Maháls	22,451 14 11	22,451 14 11	671 2 7	22,355 11 10	23,026 14 5	574 15 6	...	
Working Plans	4,250 6 11	4,250 6 11	.....	4,284 13 2	4,284 13 2	34 6 3	...	
Bombay Forest Surveys...	6,127 4 6	6,127 4 6	30 0 0	6,877 4 6	6,907 4 6	780 0 0	...	
Total Disbursers	1,78,336 15 7	1,78,336 15 7	3,715 9 0	1,80,478 1 7	1,84,193 10 7	5,856 11 0	...	
Grand Total	1,79,666 15 7	1,79,666 15 7	3,715 9 0	1,82,008 1 7	1,85,723 10 7	6,056 11 0	...	

No. ^{F.}
15458.

Forwarded to the Conservator of Forests, Northern Circle, under Section 267 of the Forest Department Code.

Accountant General's Office, }
Bombay, 2nd September 1897. }

E. LAWRENCE,
Accountant General.

FORM No. 65.

FOREST DEPARTMENT, BOMBAY, NORTHERN CIRCLE.

Financial Results of the year 1896-97.

Division.	TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY.		OTHER REVENUE.		FORMATION, PROTECTION AND IMPROVEMENT OF FORESTS.	TOTAL.		REMARKS.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
North Thána	2,794	19,038	2,28,296	22,087	26,484	2,31,090	67,609	
South Thána	978	19,306	1,50,983	21,493	38,434	1,51,961	79,233	
Central Thána	1,043	13,104	67,276	11,178	16,395	68,319	40,677	
Surat	22,030	20,592	44,230	37,027	25,178	66,260	82,797	
Panch Maháls	1,956	12,435	63,851	14,444	22,686	65,807	49,565	
Total	28,801	84,475	5,54,636	1,06,229	1,29,177	5,83,437	3,19,881	

*Dated Bándra, the 15th October 1897.*R. C. WROUGHTON,
Conservator of Forests, Northern Circle.

No. 721 of 1898.

REVENUE DEPARTMENT.

Ahmedabad, 25th February 1898.

Forwarded to Government. It was received in this office on the 21st instant.

2. Famine and Plague have made their mark on this as on nearly every other department of public work.

3. Little settlement work remains uncompleted, except in the Mándvi Táluka of the Surat District, where the original work was done with so little judgment as to necessitate revision. It is understood that Mr. Wood submitted proposals some time ago, but the Collector has been unable to consider them finally as yet because of the engrossing demands of the Plague. Demarcation by cairns in the other parts of the Circle has made progress, but it is not shown how many miles remain undone.

4. A copy of the annual report of the Forest Survey, together with the Survey Commissionèr's review of it, has been furnished to this office as directed in Government Resolution No. 5335 of 15th July 1895. There is nothing in it which calls for special comment by the Commissioner.

5. Working-plans have made due progress. 1,184 coupes have been marked out on the ground in Thána against 1,722 last year, but somewhat more than last year has been done in this way by the department, as only 246 are credited to the Forest Survey against 1,077. A beginning has been made in the Panch Maháls. The prevention of theft by the improved marking of reserved trees is one of the many objects for which an increased establishment is so much to be desired.

6. The percentage of abortive prosecutions is very large both absolutely and as compared with last year, and is not satisfactory. The tables given by Mr. Wroughton in his paragraphs 37 and 39 differ in form from those given in his report of last year and are in some points less instructive. At any rate the variation makes comparison at a glance less easy.

7. The tables in paragraphs 42 and 46 showing the facts about forest fires are also on new lines. It is much to be hoped that the success they show is real and will be maintained. The Commissioner lately visited the beautiful forest round Pávágadh hill and was much struck with the careful and energetic arrangements made by Mr. Wallinger. He is not surprised to hear that they have been followed by good results.

8. The Commissioner much regrets to see that year after year the Forest Report is practically a blank under the head of "Experiments." The introduction and improvement of fruit trees and of trees bearing some useful product is a marked feature of the progress of western countries, and there is great scope for and need of this kind of work in India. It is possible that the department may not recognise culture of fruit trees as within its sphere, but it is hoped for the sake of the country that such a narrow view is not accepted by Government. There ought to be an honourable rivalry between the Forest and the Agricultural Departments to show the way in this direction. A more serious obstacle is that the staff is too small for the demands of forest proper, and the Commissioner regretfully admits that on this account nothing on a large scale can be expected. But on visiting such a nursery as that at Bulsár under the charge of its enthusiastic Ranger, he cannot help wishing that the whole of its resources were not devoted to growing the ordinary trees of the country. They are most important and above all certain, but it would more accord with the spirit of the age to devote some portion of the ground and the zeal of the officer in charge to making some advance forward.

9. There is a heavy decrease in receipts of two lákhs owing to Plague and Famine, and also, it would appear, to the inferior produce of the Thána coupes

although anything like accurate comparison under this head will not be possible until Mr. Wroughton's formulæ for ascertainment of actual yield are perfected and applied for some years. In the Panch Maháls the cuttings show an increase, but they are not strictly speaking from forest at all, and are at best not a permanent source of income.

10. An important step in furtherance of stronger management has been the formation in the year under report of a third division in the Thána District. It is hoped that this will soon be followed up by an increase of lower establishment there and in the Panch Maháls.

F. S. P. LELY,
Commissioner, N. D.

CENTRAL CIRCLE.

No. 6316 of 1897-98.

From

A. T. SHUTTLEWORTH, ESQUIRE,
Conservator of Forests, Central Circle;

To

THE CHIEF SECRETARY TO GOVERNMENT,
Revenue Department,
Bombay.

*Camp Belvandi Kothár, Ahmednagar District,
dated 4th March 1898.*

SIR,

I have the honour to submit herewith the Forest Administration Report of the Central Circle for the Forest year 1896-97, together with its prescribed subsidiary statements.

I have the honour to be,

Sir,

Your most obedient Servant,

A. T. SHUTTLEWORTH,
Conservator of Forests, Central Circle.

THROUGH THE COMMISSIONER, CENTRAL DIVISION.

INDEX.

FOREST ADMINISTRATION REPORT, CENTRAL CIRCLE, FOR 1896-97.

Chapter.	Subject.	Paras.
	INTRODUCTION	1 to 15
I.	EXTENSION AND CONSTITUTION OF STATE FORESTS—	
	(i).—Alteration of Areas	16—17
	(ii).—Forest Settlements	18—25
	(iii).—Demarcation	26
	(iv).—Surveys	27—31
II.	MANAGEMENT OF STATE FORESTS—	
	I.—Regulation of Management—	
	(a).—Working Plans and their control	32—37
	(b).—Annual Plans of Operations	38
	II.—Working of the year—	
	(a).—Communications and Buildings—	
	(1).—Roads	39—40
	(2).—Buildings	41
	(3).—Other Works	42—43
	(b).—Protection of Forests from Injury—	
	(1).—General Protection and Breaches of Forest Law... ..	44—62
	(2).—Protection from Fire	63—67
	(3).—Regulation of Grazing and Protection from Cattle	68—75
	(c).—Improvement of Forest Growth—	
	(1).—Natural Reproduction	76—83
	(2).—Artificial Reproduction	84—85
	(3).—Early Thinnings	86
	(4).—Other Operations for the Improvement of Growing Stock	87—88
	(5).—Experiments	89—94
	(d).—Exploitation of Major Forest Produce—	
	(1).—Clear or Regeneration Fellings	95—101
	(2).—Selection Fellings	102—104
	(3).—Improvement Fellings	105—110
	(4).—Coppice Fellings	
	(5).—Unregulated Fellings	111—115
	(e).—Extraction and Transport of Major Forest Produce by Land and Water	116—117
	(f).—Exploitation of Minor Forest Produce—	
	(1).—Extraction of Fodder	118—124
	(2).—Grazing	125—130
	(3).—Miscellaneous Produce	131—138
I.	GROSS YIELD AND OUTTURN OF FOREST PRODUCE—	
	I.—Departmental Operations	139—160
	II.—Removal of Produce by Purchasers	161—178
	III.—Free Grants of Forest Produce... ..	179—180
	IV.—Produce removed by Right-holders and under Privileges.	181—185
IV.	FINANCIAL RESULTS	186—197
V.	FOREST ADMINISTRATION Forms Nos. 46 to 65.	198—212

FOREST ADMINISTRATION REPORT OF THE CENTRAL CIRCLE,
BOMBAY PRESIDENCY, FOR THE FOREST YEAR 1896-97.

INTRODUCTION.

Famine, which has covered the face of the Deccan during the greater portion of the forest year, has imprinted its depressing stamp upon the commercial transactions of the Central Circle, so that the financial results have been very unfavourable compared with those of preceding years. The early rains in July were unusually heavy, and caused great and disastrous floods in the rivers flowing through the Deccan, but the subsequent lengthened cessation of rains, and the consequent drought, withered up the crops in the eastern portion of the circle; and as the prices of food-grains became very high, trade in timber and other forest produce languished for the want of money and demand; and whatever grass had sprung up under the early rains in the country east of the moist forest belt bordering the Syhádri was quickly eaten up by cattle, and what escaped died away under an absence of rain and humidity, so that there was an absolute dearth of grass in the Sholápur and Ahmednagar divisions, and in the eastern ranges of the Poona and Sátára divisions, and the inland ranges of Násik, by the middle of November 1896. The timber and firewood and bámboo sales have not in consequence of these adverse conditions been as successful as was expected before any sign of the famine appeared, and the revenue from grass, grazing and other minor forest produce shows a considerable decline.

2. No territorial changes of divisions have occurred; but owing to the Sávda Táluka with the Ráver and Yával Petás having been transformed into two tálukas, *viz.*, Ráver and Yával, the three forest ranges of Ráver, Sávda and Yával have followed suite, and are now represented by two larger ranges, Ráver and Yával, the Sávda táluka and range having disappeared from the lists of revenue sub-divisions, and of forest minor executive charges.

3. *Forest Reservations* have expanded to a small extent through some waste and occupied lands situated within the sanctioned forest boundary lines having been acquired and constituted reserved forests; the nominal forest acreage has increased slightly under corrections in book entries of areas. The net increase from both causes amounts to 14 square miles and 243 acres at the close of the year: on 30th June 1897, the forest reservations included in reserved forest 14 square miles 257 acres, in protected forests—14 acres, total 14 square miles 243 acres.

4. *Forest Settlements*.—Forest Settlement Officers were engaged in completing the records of the forest settlements, and also upon the acquisition of occupied lands inside the sanctioned forest boundaries, either by giving waste lands in exchange or by payment of money compensation; during the year the settlement of 9 square miles and 634 acres of such acquired lands has been effected; and 11 square miles and 158 acres of acquired lands were still undergoing settlement which had not been finished at the close of the year.

5. *Forest Privileges* remain in *statu quo*, having undergone no change.

6. *Forest Surveys* were in progress in the divisions of Ahmednagar and Poona; the total cost charged to the Circle amounts to Rs. 31,356.

7. *Forest Demarcation* was undertaken on a large scale in order to afford relief work to the people in the famine-affected parts of the Circle. 2,746 linear miles of forest boundaries have been demarcated with 65,881 special forest boundary marks at an expenditure of Rs. 16,917..

8. *Forest Working Plans*.—The Working Plans Party has demarcated on the ground 134 compartments including an area of 14,539 acres for the exploitation of timber. Proposals for the systematic working of the forests of 10 ranges have been completed during the year.

9. *Forest Establishments*.—There has been no change in the numerical strength and constitution of superior officers; 2 Forest guards on Rs. 7 each

have been added to the Forest District Establishment, and 1 clerk on Rs. 60, 1 on Rs. 40, 1 on Rs. 20 and 2 peons on Rs. 8 each to the office establishment.

10. *Forest Offences*, in respect of which prosecutions were instituted, and those that were compounded under Section 67 of the Indian Forest Act, have diminished slightly in number compared with those of the year before. 1,610 cases of forest crimes were brought before the Magistrates of the Deccan for disposal according to the law, and 2,091 cases were compounded by Divisional Forest Officers under Section 67 of the Indian Forest Act.

11. *Forest Impoundings*.—The number of animals pounded during the year has been considerably less than that of the previous year: the score amounted to 101,192 in "open-forests" for grazing without permits having been taken and paid for; and 138,770 for trespassing in "closed-forests" in which no grazing is allowed: of the total number impounded 81,413 were sheep and 36,934 were goats.

12. *Forest Fires*.—The percentage of areas burnt in all the divisions has been less than that of the preceding year notwithstanding the fact of the extreme dryness of the year, and of its consequently being a more favourable year for forest fires.

13. *Forest Development*.—The results of both the natural and artificial reproduction were not satisfactory owing to unfavorable rainfall, heavy deluges at the beginning of the season followed by a lengthened break, and subsequent great drought.

14. *Forest Finances*.—The revenue of the year has diminished greatly, while the expenditure shows a considerable increase, thus reducing the surplus: the particulars are explained further on in the financial chapter.

15. *Forest Officers*.—From the opening of the year, *i.e.*, the 1st July to the 24th November 1896, and again from the 8th to 30th June 1897, the Circle was in charge of the Honourable Mr. A. T. Shuttleworth, Conservator of Forests, 1st Grade, and during the interim Mr W. G. Betham, Deputy Conservator of Forests, 1st Grade, held administrative charge of the Circle in consequence of the deputation on special famine duty of Mr. Shuttleworth, in connection with the supply of grass and grazing to the cattle in the famine-affected districts. The names of the superior Forest officers, who held charge of the several divisions, &c., are given in the statement below:—

No.	Division.	Name.	Rank.	Designation.	From	To	REMARKS.
1	East Khândesh ...	Mr. R. H. Mâdan ...	Extra Deputy Conservator of Forests.	Divisional Forest Officer.	1st July 1896 ...	30th June 1897.	
2	West Khândesh {	Mr. H. W. Keys ...	Deputy Conservator of Forests.	Do.	Do. ...	Do.	
		" V. G. Tumne ...	Extra Assistant Conservator of Forests.	Sub-division Forest Officer.	Do. ...	Do.	
3	Nâsik ... {	Mr. C. Greathead ...	Deputy Conservator of Forests.	Divisional Forest Officer.	Do. ...	18th Oct. 1896.	
		" C. M. Thato ...	Deputy Collector ...	Do. ...	19th October 1896.	29th do.	
		" G. R. Duxbury ...	Assistant Conservator of Forests.	Do. ...	21st do.	30th June 1897.	
4	Ahmednagar ... {	" G. S. Hinge ...	Extra Assistant Conservator of Forests.	Sub-division Forest Officer.	1st July 1896 ...	Do.	
		Mr. S. Hornidge, A.M.I.C.E.	Deputy Conservator of Forests.	Divisional Forest Officer.	Do. ...	Do.	
5	Poona ... {	Mr. R. S. Fagan ...	Do.	Do. ...	Do. ...	29th Nov. 1896.	
		" L. S. Osmaston.	Do.	Do. ...	30th Nov. 1896 ...	30th June 1897.	
		" E. M. Hodgson.	Assistant Conservator of Forests.	Supernumerary ...	18th do. ...	Do.	
		" V. M. Tilak ...	Extra Assistant Conservator of Forests.	Sub-division Forest Officer.	1st July 1896 ...	Do.	
6	Sâitâra ... {	Mr. A. D. Wilknis.	Deputy Conservator of Forests.	Divisional Forest Officer.	Do. ...	Do.	
		" W. R. Govande.	Extra Assistant Conservator of Forests.	Sub-division Forest Officer.	Do. ...	Do.	
7	Sholâpur ...	Mr. W. F. D. Fisher.	Assistant Conservator of Forests.	Divisional Forest Officer.	Do. ...	Do.	
8	Working Plans, Central Circle.	Mr. T. B. Fry ...	Deputy Conservator of Forests.	Do. ...	Do. ...	29th Nov. 1896.	
		" R. S. Fagan ...	Do.	Do. ...	30th Nov. 1896 ...	30th June 1897.	
		" L. S. Osmaston.	Do.	Assistant to the Divisional Forest Officer, Working Plans,	1st July 1896 ...	27th Aug. 1896.	